## PATENT COOPERATION TREATY

# **PCT**

#### **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 29763.0116	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/US 99/26312	08/11/1999	13/11/1998	
Applicant HARRINGTON ARTHRITIS RESE	ARCH CENTER		
This international Search Report has been according to Article 18. A copy is being to	n prepared by this International Searching Autanemitted to the International Bureau.	hority and is transmitted to the applicant	
This international Search Report consists  It is also accompanied by	of a total of4 sheets. a copy of each prior art document cited in this	s report.	
Basis of the report     With regard to the language, the language in which it was filed, unit	international search was carried out on the ba ess otherwise indicated under this item.	isks of the International application in the	
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of	the international application furnished to this	
was carried out on the basis of the contained in the international filed together with the international application a	e sequence listing: ' nal application in written form. mational application in computer readable for this Authority in written form. this Authority in computer readble form. psequently furnished written sequence listing of silied has been furnished.		
	nd unsearchable (See Box I).		
3. Unity of invention is lac	king (see Box II).		
	brnitted by the applicant. hed by this Authority to read as follows: FOR INJECTING MATERIAL TO B	ONES	
	* **	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.	
6. The figure of the drawings to be publi		. 6	
as suggested by the appliation because the applicant fall		None of the figures.	
	characterizes the invention.	<b>*</b>	



International Application No PCT/US 99/26312

# A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61B17/86

According to international Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
ppropriate, of the relevant passages Relevant to claim No.	Category °			
ONZO) -31) umn 4, line 39; ne 34	X			
PAN e 1995 (1995-06-30) SHIGAMI)	X			
PAN 1,4-6,9, 10, 13-15,17 MO)	X			

χ Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents:	"T' later document published after the International filing date		
"A" document defining the general state of the art which is not considered to be of particular relevance	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another	Involve an inventive step when the document is taken alone		
citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the		
"O" document referring to an oral disclosure, use, exhibition or other means	document is combined with one or more other such docu- ments, such combination being obvious to a person skilled		
"P" document published prior to the international filing date but	in the art.		
later than the priority date claimed	"&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
2 March 2000	13/03/2000		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (431–70) 340–2040, Tx. 31 651 epo ni, Fax: (431–70) 340–3018	Nice, P		



International Application No PCT/US 99/26312

Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
x	DATABASE WPI Week 9842 Derwent Publications Ltd., London, GB; Page P31, AN 98-488572 XP002132030 & JP 10 211213 A (MITSUBISHI MATERIALS), 11 August 1998 (1998-08-11) abstract; figures	1,4-6,9, 10,13-15
X A	US 5 047 030 A (K.DRAENERT) 10 September 1991 (1991-09-10) cited in the application column 2, line 13 - line 16 column 3, line 30 - line 36 column 3, line 53 - line 56 figures 1-2A	9,10, 13-15,19 1,4-6
A	EP 0 490 517 A (COOK INC. AND UNIVERSITY OF FLORIDA RESEARCH FOUNDATION) 17 June 1992 (1992-06-17) abstract; figures 1,6,8 column 4, line 12 - line 14 column 7, line 5 - line 23	1,5,6,9, 10,13, 14,16,18



Information on patent family members

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JP 07051292	Α	28-02-1995	NONE	
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US 5047030	<b>A</b>	10-09-1991	AT 124235 T DE 3854067 D DE 3854067 T WO 8806023 A EP 0305417 A JP 1502402 T JP 2935708 B US 5192282 A	15-07-1995 03-08-1995 25-01-1996 25-08-1988 08-03-1989 24-08-1989 16-08-1999 09-03-1993
EP 0490517	A	17-06-1992	AT 133052 T CA 2057540 A DE 69116533 D DE 69116533 T DK 8792 A ES 2087839 A ES 2085441 T GR 91100500 A,B JP 1885787 C JP 4292173 A JP 6006162 B US 5431655 A US 5601559 A US 5484442 A	15-02-1996 14-06-1992 29-02-1996 05-09-1996 23-01-1992 16-07-1996 01-06-1996 23-11-1992 22-11-1994 16-10-1992 26-01-1994 11-07-1995 11-02-1997 16-01-1996

### **INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US 99/26312

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This into	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: 20 because they relate to subject matter not required to be searched by this Authority, namely: Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box ii	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This into	emational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. 🗌	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з. 🗌	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. 🗆	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remari	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.